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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/331,829	06/23/1999	HIROSHI SUZUKI	1576.77	2131
75	590 04/24/2002			
Joseph C Mason Jr. Mason & Associates			EXAMINER	
17757 US Highway 19 North Suite 500		SELLERS, ROBERT E		
Clearwater, FL 33764			ART UNIT	PAPER NUMBER
			1712	21
			DATE MAILED: 04/24/2002	21

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summer	09/331,829	SUZUKI ET AL.			
Office Action Summary	Examiner	Art Unit			
The MANUNO DATE And	Robert Sellers	1712			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the d	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on <u>15 F</u>	ebruary 2002 .				
	is action is non-final.				
3) Since this application is in condition for allowa closed in accordance with the practice under L Disposition of Claims	ince except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.			
4) Claim(s) 6-10 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.	on from consideration.				
6)⊠ Claim(s) <u>6-10</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or pplication Papers	election requirement.				
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accept		inor			
Applicant may not request that any objection to the	drawing(s) be held in abevance. See	e 37 CFR 1 85(a)			
11) The proposed drawing correction filed oni	is: a) ☐ approved b) ☐ disapprov	red by the Examiner			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Exar	miner.				
riority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☑ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority application from the International Bures See the attached detailed Office action for a list of	y documents have been received	in this National Stage			
14)☐ Acknowledgment is made of a claim for domestic p	Oriority under 35 LLS C & 110(a)	(40 0 mass data			
a) The translation of the foreign language provis	sional application has been received	en al			
tachment(s)	priority uniter 35 U.S.C. §§ 120 a	na/or 121.			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)		PTO-413) Paper No(s) ent Application (PTO-152)			
Patent and Trademark Office P-326 (Rev. 04-01) Office Action	n Summary	Part of Paper No. 21			

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A Request for Continued Examination has been filed February 15, 2002 (Paper No. 20). The following response addresses the preliminary amendment filed on the same day.

The text of section 103(a) of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Nos. 5,194711 and 6-329570 and Asai et al.

The rejection is maintained for the reasons of record set forth in the previous Office actions. The arguments filed February 15, 2002 have been considered but are unpersuasive.

The tetrakisphenol clathrate curing accelerator of claims 8 and 9 and defined as an optional component in claim 10 is shown in Japanese '711 (page 15, paragraph 13, 2,4,6-tris-(dimethylaminomethyl)phenol, o-dimethylaminomethylphenol, 2-methylimidazole, 2-ethyl-4-methylimidazole or 1,8-diazabicyclo-(4,5,0)-undecene-7 as an accelerator), Japanese '570 (nitrogen-containing heterocyclic compounds) and Asai et al. (col. 3, lines 47-51, nitrogen-containing heterocyclic compounds such as imidazole). It would have been obvious to employ the tetrakisphenol of Japanese '570 and Asai et al. as the clathrate compound for the accelerators of Japanese '711 in order to optimize the chemical stabilization.

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Claim 10 denotes either a tetrakisphenol clathrate with an epoxy-reactive curing agent and/or a tetrakisphenol clathrate with an epoxy resin accelerator. None of the claims is limited to the tetrakisphenol clathrate itself as an epoxy resin accelerator.

The evidence presented in Table 1 (specification, page 24, Sample Nos. 10 and 24), Table 2 (page 25, Sample No. 32) and Table 3 (page 28, Sample Nos. 48, 50, 53 and 54) is reproduced in Table 1 on page 6 of the amendment after Final rejection mailed September 21, 2001 (Paper No. 16) except for the reporting of pot life results. Such values can only be validated by presentation in a 37 CFR 1.132 declaration since they were not originally revealed in the specification.

The evidence is not commensurate in scope with the claims with respect to a representative sampling of the myriad curatives and accelerators to be combined with the tetrakisphenol clathrate such as the diverse species described on page 7, the last paragraph, to page 10, line 10 of the specification.

The closest prior art clathrate is the bisphenol A shown on page 15, paragraph 14, item (14) of Japanese '711 due to the presence of two phenolic moieties which most closely resembles the claimed tetraphenol structure. Consequently, the sole valid comparison involves Sample No. 32 (1 mole tetrakisphenol ethane: 2 moles of 2-methylimidazole) vs. Sample No. 54 (1 mole bisphenol A vs. 1 mole of 2-methylimidazole). However, the testing of a single type of curative or accelerator does not establish the criticality of the various structurally and functionally diverse species within the ambit of the claims.

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No sample calculations are presented to verify the allegation on page 4 of the preliminary amendment filed February 15, 2002 that the molar ratio of clathrate:epoxy groups is 0.1:1. There is no documentation to indicate that the UVR-6410 exhibited in Comparison Example 4 (page 33) is a diglycidyl ether of bisphenol A. Note that the mole ratio is expressed in claims 6, 9 and 10 as a ratio between the molar amount of clathrate containing the curative and the equivalents of epoxy groups within the epoxy resin. It is unclear whether the alleged molar ratio of 0.1:1 reflects the claimed units. Even if the alleged molar ratio is considered, the testing of a single molar ratio of 0.1:1 does not confirm the patentability of the claimed minimum of two orders of magnitude lower at 0.001:1.

The suggestion, teaching or motivation to utilize the tetrakisphenol clathrate of Japanese '570 and Asai et al. as the host compound of Japanese '711 resides firmly in Japanese '570 and Asai et al. wherein chemical stability (Japanese '570) and ease of release upon heating (Asai et al., col. 14, lines 33-35) are ascribed to a tetrakisphenol as a clathrate.

Japanese priority application no. 177468-1997 filed July 2, 1997 has not been received. The other three cited Japanese priority applications have been filed February 27, 1998 (Paper No. 7).

All claims are drawn to the same invention claimed in the parent application prior to the filing of this Request for Continued Examination under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action.

Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing under 37 CFR 1.114. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

(703) 308-2399 (Fax no. (703) 872-9311) Monday to Friday from 9:30 to 6:00 EST

> Robert Sellers Primary Examiner Art Unit 1712